HYGIENETECH
Hygiene Technologies International, Inc.

3625 Del Amo Boulevard, Suite 180
Torrance, California 90503-1643
(310) 370-8370
(310) 370-7026 FAX
www.hygienetech.com

May 12, 2014

California State Board of Equalization
450 N Street
Sacramento, California 94279

Document No. 21404001.1

Attention: David Gau

Regarding: Limited Fungal Growth Exposure Assessment Surveys
April 2014 Random Sampling

Dear Mr. Gau:

On April 4, 14, 21, and 29, 2014, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted limited fungal growth exposure assessment surveys involving 22 randomly selected areas located within the California State Board of Equalization (BOE) building. The findings of the surveys, along with the analytical data, conclusions, and recommendations when applicable, appear below.

On the survey dates, air samples were collected for total (viable and nonviable) fungi analyses using a Zefon brand Bio-Pump Plus™ equipped with Air-O-Cell™ cassettes. All such samples were subsequently analyzed for fungi (including yeasts, molds, rusts, smuts, and mushrooms) by trained and experienced microbiologists at a laboratory accredited by the American Industrial Hygiene Association (AIHA) and that successfully participates in the AIHA Environmental Microbiology Proficiency Analytical Testing (EMPAT) Program. The airborne fungi assessment analytical data with supporting and background information appear in the enclosed table.

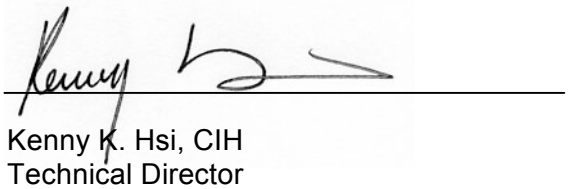
As presented in Table 21404001-1, the airborne spore count data recorded showed fungal spore types outdoors such as *Alternaria*, ascospores, basidiospores, *Botrytis*, *Chaetomium*, C*ladosporium*, colorless spores typical of *Penicillium*/*Aspergillus* species*, Epicoccum, Oidium,* other brown*, Nigrospora,* rusts, smuts, *Stemphylium*, and/or *Torula*. In the indoor areas tested, the data showed that airborne fungal spores were either not detected at or above the laboratory detection limit indicated or were detected at low airborne concentrations. The fungal spore types found indoor included ascospores, basidiospores, *Chaetomium*, *Cladosporium*, colorless spores typical of *Penicillium*/*Aspergillus* species, *Epicoccum, Helicoma*, other brown*, Nigrospora,* rusts, smuts, and/or *Stemphylium.* The distribution of fungal spore types detected in the surveyed areas was consistent with those found outdoors, and the overall data within the tested areas were well below the overall outdoor data recorded. These data are considered unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.

Be advised that the data provided in this report only represent limited fungal growth and exposure potentials that existed at the time these surveys were performed and at the precise sample locations indicated. Note that fungal growth and exposure potentials may change due to changes in environmental conditions (such as those caused by water intrusion), use of mechanical systems, or other factors. Also be advised that additional fungal growth may exist at one or more locations in the structure that were not specifically assessed during the surveys.

If you have any comments or questions regarding the information contained in this correspondence, please feel free to contact our offices directly at (310) 370-8370.

Sincerely,

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.



Kenny K. Hsi, CIH
Technical Director

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A

CLIENT: California State Board of Equalization
450 N Street
Sacramento, California 94279

TABLE 21404001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
APRIL 4, 14, 21, AND 29, 2014

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21404001-1 TM01OUT	21404001-1 TM02	21404001-1 TM03	21404001-1 TM04
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 10 feet south of building; approximately five feet above ground/Normal outdoor activities	3rd Floor; Column N23 area; Cubicle at Column N23; approximately five feet above floor/Normal office activities	5th Floor; Copy Room 506; about center; approximately five feet above floor/Normal office activities	10th Floor; Column J18 area; Cubicle at Column J18; about center; approximately five feet above floor/Normal office activities
DATE	04/04/14	04/04/14	04/04/14	04/04/14
START/STOP	15:41:00/15:461:00	15:51:00/15:56:00	16:00:00/16:05:00	16:09:00/16:14:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	13			
Ascospores	430		53	
Basidiospores	53			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium			110	53
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown				
Other colorless				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)		13	27	
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background debris*	1+	2+	1+	2+
TOTAL**	490	13	190	53

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

**Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A

CLIENT: California State Board of Equalization
450 N Street
Sacramento, California 94279

TABLE 21404001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
APRIL 4, 14, 21, AND 29, 2014

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21404001-1 TM05	21404001-1 TM06	21404001-1 TM07OUT	21404001-1 TM08
SAMPLING LOCATION/ACTIVITIES	15th Floor; Column K21 area; about 15 feet northwest of Column K21, approximately five feet above floor/Normal office activities	19th Floor; area between Column L17 and M17; Cubicle 131.1; approximately five feet above floor/Normal office activities	Outdoors; about 15 feet east of building; approximately five feet above ground/Normal outdoor activities	1st Floor; Mail Room 143; reception area; about center; approximately five feet above floor/Normal office activities
DATE	04/04/14	04/04/14	04/14/14	04/14/14
START/STOP	16:17:00/16:22:00	16:26:00/16:31:00	15:30:00/15:35:00	15:40:00/15:45:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores			750	
Basidiospores			1,300	53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium			13	
Cladosporium		110	1,800	
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				13
Oidium			40	
Other brown			13	13
Penicillium/Aspergillus types			110	
Pithomyces				
Rusts			750	40
Smuts (Periconia, Myxomycetes)			27	
Stachybotrys				
Stemphylium				
Torula				
Trichocladium				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	80	13
Background debris*	2+	1+	2+	2+
TOTAL**	<13	110	4,700	120

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

**Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A

CLIENT: California State Board of Equalization
450 N Street
Sacramento, California 94279

TABLE 21404001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
APRIL 4, 14, 21, AND 29, 2014

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	**21404001-1 TM09**	**21404001-1 TM10**	**21404001-1 TM11**	**21404001-1 TM12**
SAMPLING LOCATION/ACTIVITIES	7th Floor; Column K20 area; about 20 feet northwest of Column K20; approximately five feet above floor/Normal office activities	11th Floor; Column J21 area; about five feet northeast of Column J21; Cubicle 10; approximately five feet above floor/Normal office activities	17th Floor; Break Room 1710; about center; approximately five feet above floor/Normal office activities	21st Floor; Northern corridor; about five feet northwest of northwestern stairwell entry door; approximately five feet above floor/Normal office activities
DATE	04/14/14	04/14/14	04/14/14	04/14/14
START/STOP	15:49:00/15:54:00	15:58:00/16:03:00	16:06:00/16:11:00	16:12:00/16:17:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium	13			
Cladosporium			53	53
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown				13
Penicillium/Aspergillus types				
Pithomyces				
Rusts			13	
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background debris*	2+	2+	2+	2+
TOTAL**	13	<13	67	67

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

**Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A

CLIENT: California State Board of Equalization
450 N Street
Sacramento, California 94279

TABLE 21404001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
APRIL 4, 14, 21, AND 29, 2014

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21404001-1 TM13	21404001-1 TM14OUT	21404001-1 TM15	21404001-1 TM16
SAMPLING LOCATION/ACTIVITIES	23rd Floor; Column J21 area; Cubicle 34; about center; approximately five feet above floor/Normal office activities	Outdoors; about 10 feet west of building; approximately five feet above ground/Normal outdoor activities	4th Floor; Column N21 area; Cubicle 14; about center; approximately five feet above floor/Normal office activities	9th Floor; Column N22 area; about 15 feet southeast of Column N22; approximately five feet above floor/Normal office activities
DATE	04/14/14	04/21/14	04/21/14	04/21/14
START/STOP	16:20:00/16:25:00	14:45:00/14:50:00	14:54:00/14:59:00	15:02:00/15:07:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria		27		
Ascospores		160		
Basidiospores		530		53
Bipolaris/Drechslera group				
Botrytis		13		
Chaetomium		27		
Cladosporium		4,600		53
Curvularia				
Epicoccum		13		
Nigrospora				
Oidium		110		
Other brown				
Other colorless				
Penicillium/Aspergillus types				
Pithomyces				
Rusts		110		
Smuts (Periconia, Myxomycetes)		810		27
Stachybotrys				
Stemphylium				
Torula		40		
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	200	<13	<13
Background debris*	2+	3+	1+	2+
TOTAL**	<13	6,400	<13	130

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

**Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A

CLIENT: California State Board of Equalization
450 N Street
Sacramento, California 94279

TABLE 21404001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
APRIL 4, 14, 21, AND 29, 2014

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21404001-1 TM17	21404001-1 TM18	21404001-1 TM19	21404001-1 TM20OUT
SAMPLING LOCATION/ACTIVITIES	16th Floor; Column N19 area; about eight feet southwest of Column N19; approximately five feet above floor/Normal office activities	20th Floor; Men's Restroom; about center' approximately five feet above floor/Normal restroom activities	22nd Floor; Room 2208; about center; approximately five feet above floor/Normal office activities	Outdoors; about 10 feet east of building; approximately five feet above ground/Normal outdoor activities
DATE	04/21/14	04/21/14	04/21/14	04/29/14
START/STOP	15:11:00/15:16:00	15:19:00/15:24:00	15:33:00/15:38:00	14:15:00/14:20:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				210
Ascospores				40
Basidiospores				390
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				27
Cladosporium	53		53	1,500
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				53
Oidium				
Other brown			13	13
Penicillium/Aspergillus types	53			
Pithomyces				
Rusts	13			320
Smuts (Periconia, Myxomycetes)			27	960
Stemphylium				53
Stachybotrys				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	27	<13	330
Background debris*	2+	2+	2+	2+
TOTAL**	120	<13	93	3,600

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

**Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A

CLIENT: California State Board of Equalization
450 N Street
Sacramento, California 94279

TABLE 21404001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
APRIL 4, 14, 21, AND 29, 2014

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21404001-1 TM21	21404001-1 TM22	21404001-1 TM23	21404001-1 TM24
SAMPLING LOCATION/ACTIVITIES	2nd Floor; Column N19 area; about 15 feet southwest of Column N19; approximately five feet above floor/Normal office activities	6th Floor; Mail Room 6B; about center; approximately five feet above floor/Normal office activities	8th Floor; Column N20 area; Cubicle 143; about center; approximately five feet above floor/Normal office activities	14th Floor; Conference Room 1406; about five feet south of entry door; approximately feet above floor/Normal office activities
DATE	04/29/14	04/29/14	04/29/14	04/29/14
START/STOP	14:25:00/14:30:00	14:33:00/14:38:00	14:42:00/14:47:00	14:51:00/14:56:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores	53			53
Basidiospores	53			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53			
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown		13		13
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	40			
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	27	<13	<13	13
Background debris*	2+	2+	3+	2+
TOTAL**	200	13	<13	67

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

**Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A

CLIENT: California State Board of Equalization
450 N Street
Sacramento, California 94279

TABLE 21404001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
APRIL 4, 14, 21, AND 29, 2014

SAMPLE NUMBER	21404001-1 TM25	21404001-1 TM26		
SAMPLING LOCATION/ACTIVITIES	18th Floor; Eastern corridor; about center; approximately five feet above floor/Normal building activities	24th Floor; Room 2445; about center; approximately five feet above floor/Normal office activities	This column intentionally left blank	This column intentionally left blank
DATE	04/29/14	04/29/14		
START/STOP	15:00:00/15:05:00	15:09:00/15:14:00		
SAMPLE TIME	5 minutes	5 minutes		
Alternaria				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	110	270		
Curvularia				
Epicoccum		13		
Helicoma		13		
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types		53		
Pithomyces				
Rusts	13			
Smuts (Periconia, Myxomycetes)	13	40		
Stachybotrys				
Stemphylium		13		
Torula				
Ulocladium				
Hyphal fragments	13	27		
Background debris*	2+	2+		
TOTAL**	130	400		

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

**Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.

EMLab P&K
A TestAmerica Company

Report for:

Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21404001-1
EML ID: 1192641

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 04-07-2014

Service SOPs: Spore trap analysis (1038)
AIHA-LAP, LLC accredited service, Lab ID #179768

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-04-2014
Date of Receipt: 04-07-2014
Date of Report: 04-08-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21404001-1 TM01 OUT		21404001-1 TM02		21404001-1 TM03	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5410097-1		5410098-1		5410099-1	
Analysis Date:	04/07/2014		04/07/2014		04/07/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13				
Ascospores	8	430			1	53
Basidiospores	1	53				
Botrytis						
Chaetomium						
Cladosporium					2	110
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes			1	13	2	27
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	1+		2+		1+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	110		13		< 13	
Skin cells (1-4+)	< 1+		1+		< 1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		490		13		190

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-04-2014
Date of Receipt: 04-07-2014
Date of Report: 04-08-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21404001-1 TM04		21404001-1 TM05		21404001-1 TM06	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5410100-1		5410101-1		5410102-1	
Analysis Date:	04/07/2014		04/07/2014		04/07/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores						
Botrytis						
Chaetomium						
Cladosporium	1	53			2	110
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		1+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	1+		< 1+		< 1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		53		< 13		110

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-04-2014
Date of Receipt: 04-07-2014
Date of Report: 04-08-2014

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21404001-1 TM01 OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: April in California† (n‡=17922)						Typical Outdoor Data for: The entire year in California† (n‡=200710)					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	13	13	13	27	53	93	54	13	13	27	67	110	53
Bipolaris/Drechslera group	-	7	13	13	27	40	9	7	13	13	27	40	12
Chaetomium	-	8	13	13	27	40	18	8	13	13	27	47	19
Cladosporium	-	110	160	430	1,100	1,900	96	110	210	610	1,600	2,800	97
Curvularia	-	7	8	13	13	27	2	7	13	13	27	53	6
Nigrospora	-	7	10	13	13	27	4	7	13	13	27	53	8
Penicillium/Aspergillus types	-	53	53	160	430	690	79	53	100	210	590	1,000	84
Stachybotrys	-	8	13	13	33	67	5	7	13	13	33	67	4
Torula	-	11	13	13	42	73	14	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	430	27	53	110	370	710	74	25	53	110	360	690	71
Basidiospores	53	53	80	270	930	1,900	93	53	80	260	990	2,300	93
Rusts	-	13	13	24	53	93	34	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	-	13	13	40	110	210	67	13	13	40	110	210	68
§ TOTAL SPORES/m3	490												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.
** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-04-2014
Date of Receipt: 04-07-2014
Date of Report: 04-08-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21404001-1 TM01 OUT:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Alternaria	13	7 - 33 - 590	45
Ascospores	430	13 - 210 - 5,800	76
Basidiospores	53	17 - 450 - 24,000	92
Cladosporium	< 13	27 - 480 - 10,000	90
Penicillium/Aspergillus types	< 13	13 - 170 - 2,700	68
Smuts, Periconia, Myxomycetes	< 13	7 - 53 - 930	64
Total	490		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21404001-1 TM02

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 4 Result: 5.6667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: 4 Result: -0.4000 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Smuts, Periconia, Myxomycetes	13
Total	13

Location: 21404001-1 TM03

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 38%	dF: 4 Result: 5.6667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: -0.2000 Critical value: 0.8000 Outside Similar: No	Score: 107 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Ascospores	53
Cladosporium	110
Smuts, Periconia, Myxomycetes	27
Total	190

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-04-2014
Date of Receipt: 04-07-2014
Date of Report: 04-08-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21404001-1 TM04

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 10%	dF: 4 Result: 5.6667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: 4 Result: -0.4000 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	53
Total	53

Location: 21404001-1 TM05

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 5.6667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 13

Location: 21404001-1 TM06

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 22%	dF: 4 Result: 5.6667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: 4 Result: -0.4000 Critical value: N/A Outside Similar: N/A	Score: 107 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	110
Total	110

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-04-2014
Date of Receipt: 04-07-2014
Date of Report: 04-08-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-04-2014
Date of Receipt: 04-07-2014
Date of Report: 04-08-2014

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21404001-1 TM01 OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		1	13
Bipolaris/Drechslera group		ND	< 13
Chaetomium		ND	< 13
Cladosporium		ND	< 13
Curvularia		ND	< 13
Nigrospora		ND	< 13
Penicillium/Aspergillus types†		ND	< 13
Stachybotrys		ND	< 13
Torula		ND	< 13
Seldom found growing indoors**			
Ascospores		8	430
Basidiospores		1	53
Rusts		ND	< 13
Smuts, Periconia, Myxomycetes		ND	< 13
Total			**493**

Location: 21404001-1 TM02

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		103
Total			**13**	**Final MoldSCORE**	**103**

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-04-2014
Date of Receipt: 04-07-2014
Date of Report: 04-08-2014

MoldSCORE™: Spore Trap Report

Location: 21404001-1 TM03

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		107
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		105
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		2	27		105
Total			**187**	**Final MoldSCORE**	**107**

Location: 21404001-1 TM04

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		103
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**53**	**Final MoldSCORE**	**103**

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-04-2014
Date of Receipt: 04-07-2014
Date of Report: 04-08-2014

MoldSCORE™: Spore Trap Report

Location: 21404001-1 TM05

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**N/A**	**Final MoldSCORE**	**100**

Location: 21404001-1 TM06

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		107
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**107**	**Final MoldSCORE**	**107**

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-04-2014
Date of Receipt: 04-07-2014
Date of Report: 04-08-2014

MoldSCORE™: Spore Trap Report

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.
** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

EMLab P&K
A TestAmerica Company

Report for:

Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21404001-1
EML ID: 1196169

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 04-15-2014

Service SOPs: Spore trap analysis (1038)
AIHA-LAP, LLC accredited service, Lab ID #179768

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-14-2014
Date of Receipt: 04-15-2014
Date of Report: 04-16-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21404001-1 TM07 OUT		21404001-1 TM08		21404001-1 TM09		21404001-1 TM10	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	5428005-1		5428006-1		5428007-1		5428008-1	
Analysis Date:	04/15/2014		04/15/2014		04/15/2014		04/15/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores	14	750						
Basidiospores	24	1,300	1	53				
Chaetomium	1	13			1	13		
Cladosporium	33	1,800						
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora			1	13				
Oidium	3	40						
Other brown	1	13	1	13				
Other colorless								
Penicillium/Aspergillus types†	2	110						
Pithomyces								
Rusts	56	750	3	40				
Smuts, Periconia, Myxomycetes	2	27						
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		2+	
Hyphal fragments/m3	80		13		< 13		< 13	
Pollen/m3	170		27		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		2+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		4,700		120		13		< 13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-14-2014
Date of Receipt: 04-15-2014
Date of Report: 04-16-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21404001-1 TM11		21404001-1 TM12		21404001-1 TM13	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5428009-1		5428010-1		5428011-1	
Analysis Date:	04/15/2014		04/15/2014		04/15/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores						
Basidiospores						
Chaetomium						
Cladosporium	1	53	1	53		
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium						
Other brown			1	13		
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts	1	13				
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		67		67		< 13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-14-2014
Date of Receipt: 04-15-2014
Date of Report: 04-16-2014

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21404001-1 TM07 OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: April in California† (n‡=17922)						Typical Outdoor Data for: The entire year in California† (n‡=200710)					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	27	53	93	54	13	13	27	67	110	53
Bipolaris/Drechslera group	-	7	13	13	27	40	9	7	13	13	27	40	12
Chaetomium	13	8	13	13	27	40	18	8	13	13	27	47	19
Cladosporium	1,800	110	160	430	1,100	1,900	96	110	210	610	1,600	2,800	97
Curvularia	-	7	8	13	13	27	2	7	13	13	27	53	6
Nigrospora	-	7	10	13	13	27	4	7	13	13	27	53	8
Other brown	13	13	13	13	40	53	33	13	13	13	40	53	34
Penicillium/Aspergillus types	110	53	53	160	430	690	79	53	100	210	590	1,000	84
Stachybotrys	-	8	13	13	33	67	5	7	13	13	33	67	4
Torula	-	11	13	13	42	73	14	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	750	27	53	110	370	710	74	25	53	110	360	690	71
Basidiospores	1,300	53	80	270	930	1,900	93	53	80	260	990	2,300	93
Oidium	40	13	13	27	53	93	31	13	13	13	44	75	19
Rusts	750	13	13	24	53	93	34	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	27	13	13	40	110	210	67	13	13	40	110	210	68
§ TOTAL SPORES/m3	4,700												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.
** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-14-2014
Date of Receipt: 04-15-2014
Date of Report: 04-16-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21404001-1 TM07 OUT:

Species detected	Outdoor sample spores/m3 <100 1K 10K >100K	Typical outdoor ranges (North America)	Freq. %
Ascospores	750	13 - 210 - 5,800	76
Basidiospores	1,300	19 - 450 - 24,000	92
Chaetomium	13	7 - 13 - 160	9
Cladosporium	1,800	27 - 480 - 10,000	90
Oidium	40	7 - 13 - 230	11
Other brown	13	7 - 13 - 130	23
Penicillium/Aspergillus types	110	13 - 170 - 2,700	68
Rusts	750	7 - 20 - 360	20
Smuts, Periconia, Myxomycetes	27	7 - 53 - 930	64
Total	4,700		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21404001-1 TM08

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 5 Result: 5.2381 Critical value: 11.0705 Inside Similar: Yes	Result: 0.4615	dF: 10 Result: 0.1606 Critical value: 0.5515 Outside Similar: No	Score: 110 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	53
Nigrospora	13
Other brown	13
Rusts	40
Total	120

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-14-2014
Date of Receipt: 04-15-2014
Date of Report: 04-16-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21404001-1 TM09

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 5 Result: 5.2381 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.0958 Critical value: 0.5833 Outside Similar: No	Score: 121 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Chaetomium	13
Total	13

Location: 21404001-1 TM10

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 5 Result: 5.2381 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 13

Location: 21404001-1 TM11

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 5 Result: 5.2381 Critical value: 11.0705 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.6750 Critical value: 0.5833 Outside Similar: Yes	Score: 102 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	53
Rusts	13
Total	67

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-14-2014
Date of Receipt: 04-15-2014
Date of Report: 04-16-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21404001-1 TM12

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 5 Result: 5.2381 Critical value: 11.0705 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.3417 Critical value: 0.5833 Outside Similar: No	Score: 105 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	53
Other brown	13
Total	67

Location: 21404001-1 TM13

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 5 Result: 5.2381 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 13

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-14-2014
Date of Receipt: 04-15-2014
Date of Report: 04-16-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-14-2014
Date of Receipt: 04-15-2014
Date of Report: 04-16-2014

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21404001-1 TM07 OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		ND	< 13
Bipolaris/Drechslera group		ND	< 13
Chaetomium		1	13
Cladosporium		33	1,800
Curvularia		ND	< 13
Nigrospora		ND	< 13
Other brown		1	13
Penicillium/Aspergillus types†		2	110
Stachybotrys		ND	< 13
Torula		ND	< 13
Seldom found growing indoors**			
Ascospores		14	750
Basidiospores		24	1,300
Oidium		3	40
Rusts		56	750
Smuts, Periconia, Myxomycetes		2	27
Total			**4,733**

Location: 21404001-1 TM08

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		1	13		105
Other brown		1	13		105
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		102
Rusts		3	40		108
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**120**	**Final MoldSCORE**	**110**

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-14-2014
Date of Receipt: 04-15-2014
Date of Report: 04-16-2014

MoldSCORE™: Spore Trap Report

Location: 21404001-1 TM09

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		1	13		121
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**13**	**Final MoldSCORE**	**121**

Location: 21404001-1 TM10

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**N/A**	**Final MoldSCORE**	**100**

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-14-2014
Date of Receipt: 04-15-2014
Date of Report: 04-16-2014

MoldSCORE™: Spore Trap Report

Location: 21404001-1 TM11

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		102
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		1	13		101
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**67**	**Final MoldSCORE**	**102**

Location: 21404001-1 TM12

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		102
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		105
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**67**	**Final MoldSCORE**	**105**

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-14-2014
Date of Receipt: 04-15-2014
Date of Report: 04-16-2014

MoldSCORE™: Spore Trap Report

Location: 21404001-1 TM13

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**N/A**	**Final MoldSCORE**	**100**

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.
** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

EMLab P&K
A TestAmerica Company

Report for:

Mr. Lakhpreet Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21404001-1
EML ID: 1199187

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 04-23-2014

Service SOPs: Spore trap analysis (1038)
AIHA-LAP, LLC accredited service, Lab ID #179768

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-21-2014
Date of Receipt: 04-22-2014
Date of Report: 04-23-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21404001-1 TM14OUT		21404001-1 TM15		21404001-1 TM16	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5444102-1		5444103-1		5444104-1	
Analysis Date:	04/23/2014		04/23/2014		04/23/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	27				
Ascospores	3	160				
Basidiospores	10	530			1	53
Botrytis	1	13				
Chaetomium	2	27				
Cladosporium	86	4,600			1	53
Epicoccum	1	13				
Myrothecium						
Nigrospora						
Oidium	8	110				
Other brown						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts	8	110				
Smuts, Periconia, Myxomycetes	61	810			2	27
Stachybotrys						
Stemphylium						
Torula	3	40				
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		1+		2+	
Hyphal fragments/m3	200		< 13		< 13	
Pollen/m3	760		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		6,400		< 13		130

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-21-2014
Date of Receipt: 04-22-2014
Date of Report: 04-23-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21404001-1 TM17		21404001-1 TM18		21404001-1 TM19	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5444105-1		5444106-1		5444107-1	
Analysis Date:	04/23/2014		04/23/2014		04/23/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores						
Botrytis						
Chaetomium						
Cladosporium	1	53			1	53
Epicoccum						
Myrothecium						
Nigrospora						
Oidium						
Other brown					1	13
Other colorless						
Penicillium/Aspergillus types†	1	53				
Pithomyces						
Rusts	1	13				
Smuts, Periconia, Myxomycetes					2	27
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	< 13		27		< 13	
Pollen/m3	27		27		< 13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		120		< 13		93

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-21-2014
Date of Receipt: 04-22-2014
Date of Report: 04-23-2014

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21404001-1 TM14OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: April in California† (n‡=17922)						Typical Outdoor Data for: The entire year in California† (n‡=200710)					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	27	13	13	27	53	93	54	13	13	27	67	110	53
Bipolaris/Drechslera group	-	7	13	13	27	40	9	7	13	13	27	40	12
Chaetomium	27	8	13	13	27	40	18	8	13	13	27	47	19
Cladosporium	4,600	110	160	430	1,100	1,900	96	110	210	610	1,600	2,800	97
Curvularia	-	7	8	13	13	27	2	7	13	13	27	53	6
Epicoccum	13	7	13	13	27	53	16	8	13	13	33	53	19
Nigrospora	-	7	10	13	13	27	4	7	13	13	27	53	8
Other brown	-	13	13	13	40	53	33	13	13	13	40	53	34
Penicillium/Aspergillus types	-	53	53	160	430	690	79	53	100	210	590	1,000	84
Stachybotrys	-	8	13	13	33	67	5	7	13	13	33	67	4
Torula	40	11	13	13	42	73	14	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	160	27	53	110	370	710	74	25	53	110	360	690	71
Basidiospores	530	53	80	270	930	1,900	93	53	80	260	990	2,300	93
Botrytis	13	13	13	15	53	67	19	13	13	20	53	80	17
Oidium	110	13	13	27	53	93	31	13	13	13	44	75	19
Rusts	110	13	13	24	53	93	34	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	810	13	13	40	110	210	67	13	13	40	110	210	68
§ TOTAL SPORES/m3	6,400												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.
** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-21-2014
Date of Receipt: 04-22-2014
Date of Report: 04-23-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21404001-1 TM14OUT:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Alternaria	27	7 - 33 - 590	45
Ascospores	160	13 - 210 - 5,800	76
Basidiospores	530	19 - 450 - 24,000	92
Botrytis	13	7 - 25 - 270	6
Chaetomium	27	7 - 13 - 160	9
Cladosporium	4,600	27 - 480 - 10,000	90
Epicoccum	13	7 - 20 - 330	25
Oidium	110	7 - 13 - 230	11
Penicillium/Aspergillus types	< 13	13 - 170 - 2,700	68
Rusts	110	7 - 20 - 360	20
Smuts, Periconia, Myxomycetes	810	7 - 53 - 930	64
Torula	40	7 - 13 - 190	9
Total	6,400		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21404001-1 TM15

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 4.5000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
None Detected	< 13

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-21-2014
Date of Receipt: 04-22-2014
Date of Report: 04-23-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21404001-1 TM16

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 4 Result: 4.5000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4286	dF: 11 Result: 0.8000 Critical value: 0.5273 Outside Similar: Yes	Score: 104 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	53
Cladosporium	53
Smuts, Periconia, Myxomycetes	27
Total	130

Location: 21404001-1 TM17

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 4 Result: 4.5000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2857	dF: 12 Result: 0.2517 Critical value: 0.4965 Outside Similar: No	Score: 108 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	53
Penicillium/Aspergillus types	53
Rusts	13
Total	120

Location: 21404001-1 TM18

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 4.5000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 13

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-21-2014
Date of Receipt: 04-22-2014
Date of Report: 04-23-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21404001-1 TM19

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 4 Result: 4.5000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2857	dF: 12 Result: 0.4808 Critical value: 0.4965 Outside Similar: No	Score: 108 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	53
Other brown	13
Smuts, Periconia, Myxomycetes	27
Total	93

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-21-2014
Date of Receipt: 04-22-2014
Date of Report: 04-23-2014

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21404001-1 TM14OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		2	27
Bipolaris/Drechslera group		ND	< 13
Chaetomium		2	27
Cladosporium		86	4,600
Curvularia		ND	< 13
Epicoccum		1	13
Nigrospora		ND	< 13
Penicillium/Aspergillus types†		ND	< 13
Stachybotrys		ND	< 13
Torula		3	40
Seldom found growing indoors**			
Ascospores		3	160
Basidiospores		10	530
Botrytis		1	13
Oidium		8	110
Rusts		8	110
Smuts, Periconia, Myxomycetes		61	810
Total			**6,427**

Location: 21404001-1 TM15

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		ND	< 13
Bipolaris/Drechslera group		ND	< 13
Chaetomium		ND	< 13
Cladosporium		ND	< 13
Curvularia		ND	< 13
Nigrospora		ND	< 13
Penicillium/Aspergillus types†		ND	< 13
Stachybotrys		ND	< 13
Torula		ND	< 13
Seldom found growing indoors**			
Ascospores		ND	< 13
Basidiospores		ND	< 13
Rusts		ND	< 13
Smuts, Periconia, Myxomycetes		ND	< 13
Total			**N/A**

MoldSCORE‡ 100 200 300	Score
	100
	100
	100
	100
	100
	100
	100
	100
	100
	100
	100
	100
	100
Final MoldSCORE	**100**

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-21-2014
Date of Receipt: 04-22-2014
Date of Report: 04-23-2014

MoldSCORE™: Spore Trap Report

Location: 21404001-1 TM16

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		104
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		2	27		102
Total			**133**	**Final MoldSCORE**	**104**

Location: 21404001-1 TM17

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		1	53		108
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		1	13		104
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**120**	**Final MoldSCORE**	**108**

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-21-2014
Date of Receipt: 04-22-2014
Date of Report: 04-23-2014

MoldSCORE™: Spore Trap Report

Location: 21404001-1 TM18

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**N/A**	**Final MoldSCORE**	**100**

Location: 21404001-1 TM19

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		105
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		2	27		103
Total			**93**	**Final MoldSCORE**	**108**

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-21-2014
Date of Receipt: 04-22-2014
Date of Report: 04-23-2014

MoldSCORE™: Spore Trap Report

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.
** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

EMLab P&K
A TestAmerica Company

Report for:

Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21404001-1
EML ID: 1202550

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 04-30-2014

Service SOPs: Spore trap analysis (1038)
AIHA-LAP, LLC accredited service, Lab ID #179768

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-29-2014
Date of Receipt: 04-30-2014
Date of Report: 05-01-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21404001-1TM20 OUT		21404001-1TM21		21404001-1TM22		21404001-1TM23	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	5461696-1		5461697-1		5461698-1		5461699-1	
Analysis Date:	04/30/2014		04/30/2014		04/30/2014		04/30/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	4	210						
Ascospores	3	40	1	53				
Basidiospores	29	390	1	53				
Chaetomium	2	27						
Cladosporium	113	1,500	1	53				
Epicoccum								
Helicoma								
Myrothecium								
Nigrospora	1	53						
Other brown	1	13			1	13		
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts	6	320						
Smuts, Periconia, Myxomycetes	72	960	3	40				
Stachybotrys								
Stemphylium	1	53						
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		3+	
Hyphal fragments/m3	330		27		< 13		< 13	
Pollen/m3	160		< 13		13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		3,600		200		13		< 13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-29-2014
Date of Receipt: 04-30-2014
Date of Report: 05-01-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21404001-1TM24		21404001-1TM25		21404001-1TM26	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5461700-1		5461701-1		5461702-1	
Analysis Date:	04/30/2014		04/30/2014		04/30/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores	1	53				
Basidiospores						
Chaetomium						
Cladosporium			2	110	5	270
Epicoccum					1	13
Fusarium						
Helicoma					1	13
Myrothecium						
Nigrospora						
Other brown	1	13				
Other colorless						
Penicillium/Aspergillus types†					1	53
Pithomyces						
Rusts			1	13		
Smuts, Periconia, Myxomycetes			1	13	3	40
Stachybotrys						
Stemphylium					1	13
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	13		13		27	
Pollen/m3	< 13		< 13		13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		67		130		400

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-29-2014
Date of Receipt: 04-30-2014
Date of Report: 05-01-2014

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21404001-1TM20 OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: April in California† (n‡=17922)						Typical Outdoor Data for: The entire year in California† (n‡=200710)					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	210	13	13	27	53	93	54	13	13	27	67	110	53
Bipolaris/Drechslera group	-	7	13	13	27	40	9	7	13	13	27	40	12
Chaetomium	27	8	13	13	27	40	18	8	13	13	27	47	19
Cladosporium	1,500	110	160	430	1,100	1,900	96	110	210	610	1,600	2,800	97
Curvularia	-	7	8	13	13	27	2	7	13	13	27	53	6
Epicoccum	-	7	13	13	27	53	16	8	13	13	33	53	19
Nigrospora	53	7	10	13	13	27	4	7	13	13	27	53	8
Other brown	13	13	13	13	40	53	33	13	13	13	40	53	34
Penicillium/Aspergillus types	-	53	53	160	430	690	79	53	100	210	590	1,000	84
Stachybotrys	-	8	13	13	33	67	5	7	13	13	33	67	4
Stemphylium	53	7	13	13	27	27	8	7	13	13	27	40	9
Torula	-	11	13	13	42	73	14	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	40	27	53	110	370	710	74	25	53	110	360	690	71
Basidiospores	390	53	80	270	930	1,900	93	53	80	260	990	2,300	93
Helicoma	-	-	-	-	-	-	< 1	7	13	13	27	40	< 1
Rusts	320	13	13	24	53	93	34	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	960	13	13	40	110	210	67	13	13	40	110	210	68
§ TOTAL SPORES/m3	3,600												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.
** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-29-2014
Date of Receipt: 04-30-2014
Date of Report: 05-01-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21404001-1TM20 OUT:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Alternaria	210	7 - 33 - 590	45
Ascospores	40	13 - 210 - 5,800	76
Basidiospores	390	19 - 450 - 24,000	92
Chaetomium	27	7 - 13 - 160	9
Cladosporium	1,500	27 - 480 - 10,000	90
Nigrospora	53	7 - 13 - 230	16
Other brown	13	7 - 13 - 130	23
Penicillium/Aspergillus types	< 13	13 - 170 - 2,700	68
Rusts	320	7 - 20 - 360	20
Smuts, Periconia, Myxomycetes	960	7 - 53 - 930	64
Stemphylium	53	7 - 13 - 93	3
Total	3,600		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21404001-1TM21

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 5%	dF: 5 Result: 6.7857 Critical value: 11.0705 Inside Similar: Yes	Result: 0.5714	dF: 10 Result: 0.5697 Critical value: 0.5515 Outside Similar: Yes	Score: 103 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Ascospores	53
Basidiospores	53
Cladosporium	53
Smuts, Periconia, Myxomycetes	40
Total	200

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-29-2014
Date of Receipt: 04-30-2014
Date of Report: 05-01-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21404001-1TM22

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 5 Result: 6.7857 Critical value: 11.0705 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.0939 Critical value: 0.5515 Outside Similar: No	Score: 105 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Other brown	13
Total	13

Location: 21404001-1TM23

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 5 Result: 6.7857 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 13

Location: 21404001-1TM24

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 5 Result: 6.7857 Critical value: 11.0705 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: -0.1545 Critical value: 0.5515 Outside Similar: No	Score: 105 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Ascospores	53
Other brown	13
Total	67

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-29-2014
Date of Receipt: 04-30-2014
Date of Report: 05-01-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21404001-1TM25

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 5 Result: 6.7857 Critical value: 11.0705 Inside Similar: Yes	Result: 0.4615	dF: 10 Result: 0.7758 Critical value: 0.5515 Outside Similar: Yes	Score: 103 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	110
Rusts	13
Smuts, Periconia, Myxomycetes	13
Total	130

Location: 21404001-1TM26

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 11%	dF: 5 Result: 6.7857 Critical value: 11.0705 Inside Similar: Yes	Result: 0.3750	dF: 13 Result: 0.0975 Critical value: 0.4780 Outside Similar: No	Score: 108 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	270
Epicoccum	13
Helicoma	13
Penicillium/Aspergillus types	53
Smuts, Periconia, Myxomycetes	40
Stemphylium	13
Total	400

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-29-2014
Date of Receipt: 04-30-2014
Date of Report: 05-01-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-29-2014
Date of Receipt: 04-30-2014
Date of Report: 05-01-2014

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21404001-1TM20 OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		4	210
Bipolaris/Drechslera group		ND	< 13
Chaetomium		2	27
Cladosporium		113	1,500
Curvularia		ND	< 13
Nigrospora		1	53
Other brown		1	13
Penicillium/Aspergillus types†		ND	< 13
Stachybotrys		ND	< 13
Stemphylium		1	53
Torula		ND	< 13
Seldom found growing indoors**			
Ascospores		3	40
Basidiospores		29	390
Rusts		6	320
Smuts, Periconia, Myxomycetes		72	960
Total			**3,573**

Location: 21404001-1TM21

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		120
Basidiospores		1	53		103
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		3	40		100
Total			**200**	**Final MoldSCORE**	**103**

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-29-2014
Date of Receipt: 04-30-2014
Date of Report: 05-01-2014

MoldSCORE™: Spore Trap Report

Location: 21404001-1TM22

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		105
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**13**	**Final MoldSCORE**	**105**

Location: 21404001-1TM23

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**N/A**	**Final MoldSCORE**	**100**

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-29-2014
Date of Receipt: 04-30-2014
Date of Report: 05-01-2014

MoldSCORE™: Spore Trap Report

Location: 21404001-1TM24

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		105
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		121
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**67**	**Final MoldSCORE**	**105**

Location: 21404001-1TM25

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		103
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		1	13		100
Smuts, Periconia, Myxomycetes		1	13		100
Total			**133**	**Final MoldSCORE**	**103**

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21404001-1

Date of Sampling: 04-29-2014
Date of Receipt: 04-30-2014
Date of Report: 05-01-2014

MoldSCORE™: Spore Trap Report

Location: 21404001-1TM26

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		5	270		107
Curvularia		ND	< 13		100
Epicoccum		1	13		105
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		1	53		108
Stachybotrys		ND	< 13		100
Stemphylium		1	13		103
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Helicoma		1	13		105
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		3	40		100
Total			**400**	**Final MoldSCORE**	**108**

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.
** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

HYGIENE TECH

Hygiene Technologies International, Inc.

001192641

3625 E
To

(310) 370-8370
(310) 370-2474 FAX
www.hygienetech.com

Request For Analysis

Project Number/~~Purchase Order~~: 2140400l-1 Date Submitted: 4/7/14

Project Contact: Li Sandhu / K-hsi Turnaround Required: Normal

Lab Destination: EMLAB P&K Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
2140400l-1 TMelevt	75L	Air-o-cell	Spore Trap Analysis (Total Fungi)
2140400l-1 TM02	75L	Air-o-cell	
2140400l-1 TM03	75L	Air-o-cell	
2140400l-1 TM04	75L	Air-o-cell	
2140400l-1 TM05	75L	Air-o-cell	
2140400l-1 TM06	75L	Air-o-cell	

~~Special Instructions~~: Random Sampling CR-1

1. **Sampled by:** [signature] on 4/4/14 @ 1541 **Received by:** [signature] 04/07/14 1570
2. **Relinquished by:** [signature] on 4/7/14 @ 1210 **Received by:** _____
3. **Relinquished by:** _____ **Received by:** _____

Please include signature, date, and time

Lab Use Only:

HYGIENE TECH

Hygiene Technologies International, Inc.

001196169

...e 180
...-1643
(310) 370-8370
(310) 370-2474 FAX
www.hygienetech.com

Request For Analysis

Project Number/~~Purchase Order~~: 21404001-1 Date Submitted: 4/15/14

Project Contact: L. Sandhu (K.45) Turnaround Required: Normal

Lab Destination: EMLAB P&K Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21404001-1 TM07 out	75L	Air-o-Cell	Spore Trap Analysis (Total Fungi)
21404001-1 TM08	75L	Air-o-Cell	↓
21404001-1 TM09	75L	Air-o-Cell	↓
21404001-1 TM10	75L	Air-o-Cell	↓
21404001-1 TM11	75L	Air-o-Cell	↓
21404001-1 TM12	75L	Air-o-Cell	↓
21404001-1 TM13	75L	Air-o-Cell	↓

~~Special Instructions~~ (LS) 1-NOTE: Random Sampling (R-2)

1. Sampled by: LSandhu on 4/14/14 @ 15:30 Received by: [signature] 4/15/14 @ 12:25
2. Relinquished by: LSandhu on 4/15/14 @ 10:20 (LS) Received by:
3. Relinquished by: Received by:

Please include signature, date, and time

Lab Use Only:

Los Angeles • San Francisco • Sacramento • Fresno • Bakersfield • Ontario • San Diego
Seattle • Chicago • Cleveland • New Orleans • Norfolk • New York
Brussels • Vienna • Abuja • Mumbai • Beijing

HYGIENE TECH

Hygiene Technologies International, Inc.

3625 ...
001199187
(310) 370-2474 FAX
www.hygienetech.com

Request For Analysis

Project Number/~~Purchase Order~~: 21404001-1 Date Submitted: 04/22/14

Project Contact: L. Sandhu / K. Lsi Turnaround Required: Normal

Lab Destination: EMLAB P&K Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21404001-1 TM14	75 L	Air-o-Cell	Spore Trap Analysis (Total Fungi)
21404001-1 TM15	75 L	Air-o-Cell	↓
21404001-1 TM16	75 L	Air-o-Cell	↓
21404001-1 TM17	75 L	Air-o-Cell	↓
21404001-1 TM18	75 L	Air-o-Cell	↓
21404001-1 TM19	75 L	Air-o-Cell	↓

I. Note ~~Special Instructions~~: Random Sampling (CR-3)

1. **Sampled by:** [signature] on 4/21/14 @ 1445 **Received by:** [signature] 1310pm 04/22/14
2. **Relinquished by:** [signature] on 4/22/14 @ 12:25 **Received by:**
3. **Relinquished by:** **Received by:**

Please include signature, date, and time

Lab Use Only:

Los Angeles • San Francisco • Sacramento • Fresno • Bakersfield • Ontario • San Diego
Seattle • Chicago • Cleveland • New Orleans • Norfolk • New York
Brussels • Vienna • Abuja • Mumbai • Beijing

HYGIENE TECH
Hygiene Technologies International, Inc.
001202550
(310) 370-2474 FAX
www.hygienetech.com

Request For Analysis

Project Number/Purchase Order: 21404001-1 Date Submitted: 4/30/14

Project Contact: L. Sandlin & K-Hsi Turnaround Required: Normal

Lab Destination: EMLAB P&K Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21404001-1 TM2000	75L	Air-o-cell	Spore Trap Analysis (Total Fungi
21404001-1 TM21	75L	Air-o-cell	
21404001-1 TM22	75L	Air-o-cell	
21404001-1 TM23	75L	Air-o-cell	
21404001-1 TM24	75L	Air-o-cell	
21404001-1 TM25	75L	Air-o-cell	
21404001-1 TM26	75L	Air-o-cell	

Special Instructions: Random Sampling (R-4) by E-Mail

1. Sampled by: Hamdan on 4/29/14 @ 1415
2. Relinquished by: Hamdan on 4/30/14 @ 1235 Received by: 04/30/14 1235 PM
3. Relinquished by: Received by:

Please include signature, date, and time

Lab Use Only: